

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 7-80) PATENT AND TRADEMARK OFFICE  LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	ATTORNEY DOCKET NO. 02108.0001U2	SERIAL NO. 60/164.286
	APPLICANT: Leonard and Tully	
	FILING DATE: November 8, 2000	GROUP: 1642

U.S. PATENT DOCUMENTS

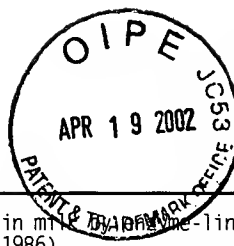
EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JH	A1	5,968,525	10/19/99	Fitzgerald et al.			
	A2	5,665,363	09/09/97	Hansen et al.			
	A3	5,585,098	12/17/96	Coleman			
	A4	5,565,205	10/15/96	Petersen et al.			
	A5	5,338,543	08/16/94	Fitzgerald et al.			
	A6	5,178,860	01/12/93	MacKenzie et al.			
	A7	4,981,684	01/01/91	MacKenzie et al.			
	A8	4,517,304	05/14/85	Stott et al.			

FOREIGN PATENT DOCUMENTS

A9	DE 29921392U1	12/06/98	Dr. Felgentrager & Co. (Germany)			
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

A10	Arnon R (Ed.). "Synthetic Vaccines I" CRC Press, Inc., Boca Raton, Florida, 83-92, 1987. ✓
A11	Artiushin et al. Arbitrarily Primed PCR Analysis of <i>Mycoplasma hyopneumoniae</i> Field Isolates Demonstrates Genetic Heterogeneity. <i>Int J Syst Bacteriol</i> 46:324-328 (1996)
A12 ✓	Al-Aubaidi et al. Characterization and Classification of Bovine Mycoplasma. <i>Cornell University, Ithaca, New York</i> p. 490-518(1970)
A13	Ayling et al. Application of the polymerase chain reaction for the routine identification of <i>Mycoplasma bovis</i> . <i>Vet Rec.</i> 141(12):307-308 (1997)
A14	Behrens et al. A newly identified immunodominant membrane protein (pMB67) involved in <i>Mycoplasma bovis</i> surface antigenic variation. <i>Microbiology</i> 142:2463-70 (1996)
A15	Beier et al. Intraspecies polymorphism of <i>vsp</i> genes and expression profiles of variable surface protein antigens (Vsps) in field isolates of <i>Mycoplasma bovis</i> . <i>Vet Microbiol</i> 63:189-203 (1998)
A16	Bergonier et al., "Species identification of <i>Mycoplasma bovis</i> and <i>Mycoplasma agalactiae</i> based on the <i>uvrC</i> genes by PCR," <i>Mol Cell Probes</i> 161-169, 1998
A17 ✓	Boothby et al. Experimental Intramammary Inoculation with <i>Mycoplasma bovis</i> in Vaccinated and Unvaccinated Cows. Effect on Milk Production and Milk Quality. <i>Can. J. Vet. Res.</i> 50:200-204 (1986)
A18	Boothby et al. Prevalence of mycoplasmas and immune responses to <i>Mycoplasma bovis</i> in feedlot calves. <i>Am. J. Vet. Res.</i> 44(5):831-837 (1983)
A19 ✓	Boothby et al. Experimental Intramammary Inoculation with <i>Mycoplasma bovis</i> in Vaccinated and Unvaccinated Cows: Effect on Local and Systemic Antibody Response. <i>Can. J. Vet. Res.</i> 51:121-125 (1987)
A20	Boothby et al. Immune Responses to <i>Mycoplasma Bovis</i> Vaccination and Experimental Infection in the Bovine Mammary Gland. <i>Can J Veterinary Research</i> 52:355-359 (1988)
A21	Boothby et al. Experimental Intramammary Inoculation with <i>Mycoplasma Bovis</i> in Vaccinated and Unvaccinated Cows: Effect on the Mycoplasmal Infection and Cellular Inflammatory Response. <i>Cornell Vet.</i> 76(2): 188-197 (1986)
A22 ✓	Boothby. Immunologic Responses to <i>Mycoplasma bovis</i> . <i>University Microfilm International</i> (Dissertation) 1-172 (1982)



278	A23	Boothby et al. Detecting <i>Mycoplasma bovis</i> in milk by enzyme-linked immunosorbent assay, using monoclonal antibodies. <i>Am J Vet Res</i> 47(5):1082-1084 (1986)	✓
	A24	Butler et al. Use of arbitrarily primed polymerase chain reaction to investigate <i>Mycoplasma bovis</i> outbreaks. <i>Veterinary Microbiology</i> 78:175-181 (2001)	✓
	A25	Cox et al. Adjuvants - a classification and review of their modes of action. <i>Vaccine</i> 15(3):248-256 (1997)	✓
	A26	Fan et al. Application of Polymerase Chain Reaction with Arbitrary Primers to Strain Identification of <i>Mycoplasma gallisepticum</i> . <i>Avian Diseases</i> 39: 729-735 (1995)	✓
	A27	Fan et al. Studies of Intraspecies Heterogeneity of <i>Mycoplasma synoviae</i> , <i>M. meleagridis</i> , and <i>M. iowae</i> with Arbitrarily Primed Polymerase Chain Reaction. <i>Avian Diseases</i> 39:766-777 (1995)	✓
	A28	Geary et al. Inflammatory Toxin from <i>Mycoplasma bovis</i> . Isolation and Characterization. <i>Science</i> 212:1032-1033 (1981)	✓
	A29	Ghadersohi et al. Development of a specific DNA Probe and PCR for the detection of <i>Mycoplasma bovis</i> . <i>Vet Microbiol</i> 56:87-98 (1997)	✓
	A30	Hanson. <i>Mycoplasma mastitis</i> : It's everyone's problem. <i>Bovine Veterinarian</i> 4-8 (September 2001)	✓
	A31	Hanson. <i>Mycoplasma mastitis</i> : Prevention and control. <i>Bovine Veterinarian</i> 12-20 (October 2001)	✓
	A32	Heller et al. Antigen capture ELISA using a monoclonal antibody for the detection of <i>Mycoplasma bovis</i> in milk. <i>Vet Microbiol.</i> 37:127-133 (1993)	✓
	A33	Houghton et al. Synergism between <i>Mycoplasma bovis</i> and <i>Pasteurella haemolytica</i> in calf pneumonia. <i>The Veterinary Record</i> 41-42 (1983)	✓
	A34	Howard et al. Protection against respiratory disease in calves induced by vaccines containing respiratory syncytial virus bovis parainfluenza type 3 virus, <i>Mycoplasma bovis</i> and <i>M. dispar</i> . <i>The Veterinary Record</i> 121:372-376 (1987)	✓
	A35	Howard et al. Immune Response of Cattle to Respiratory Mycoplasmas. <i>Vet. Immunology &amp; Immunopathology</i> 17: 401-412 (1987)	✓
	A36	Howard et al. Immune Responses to <i>Mycoplasma</i> Infections of the Respiratory Tract. <i>Vet. Immunology &amp; Immunopathology</i> 10:3-32 (1985)	✓
	A37	Howard et al. Immune Response of Calves Following the Inoculation of <i>Mycoplasma Dispar</i> and <i>Mycoplasma Bovis</i> . <i>Veterinary Microbiology</i> 8:45-56 (1983)	✓
	A38	Howard et al. Immunity to <i>Mycoplasma bovis</i> infections of the respiratory tract of calves. <i>Research in Veterinary Science</i> 28:242-249 (1979)	✓
	A39	Jasper D.E. The role of <i>Mycoplasma</i> in bovine mastitis. <i>J Amer Vet Med Assn</i> 181:158-162 (1982)	✓
	A40	Kirk et al. Epidemiologic analysis of <i>Mycoplasma spp</i> isolated from bulk-tank milk samples obtained from dairy herds that were members of a milk cooperative. <i>J Am Vet Med Assoc</i> 211(8):1036-1038 (1997)	✓
	A41	Knudtson et al. Identification of Mycoplasmatales in Pneumonic Calf Lungs. <i>Vet Microbiol</i> 11:79-91 (1986)	✓
	A42	Kunkel. Isolation of <i>Mycoplasma Bovis</i> from Bulk Milk. <i>Cornell Vet.</i> 75:398-400 (1985)	✓
	A43	Pettersson et al. Phylogeny of some mycoplasmas from ruminants based on 16S rRNA sequences and definition of anew cluster within the hominis group. <i>Int J Syst Bacteriol</i> 46(4):1093-1098 (1996)	✓
	A44	Poumarat et al. Genomic, protein and antigenic variability of <i>Mycoplasma bovis</i> . <i>Vet Microbiol.</i> 40:305-321 (1994)	✓
	A45	Poumarat et al. Efficacy of spectinomycin against <i>Mycoplasma bovis</i> induced pneumonia in conventionally reared calves. <i>Veterinary Microbiology</i> 80:23-35 (2001)	✓
	A46	Raspberry and Rosenbusch. Membrane-Associated and Cytosolic Species-Specific Antigens of <i>Mycoplasma bovis</i> - Recognized by Monoclonal Antibodies. <i>Hybridoma</i> 14(5):481-485 (1995)	✓
	A47	Rawadi. Characterization of Mycoplasmas by RAPD Fingerprinting. <i>Methods in Molecular Biology</i> 104:179-187	✓
	A48	Sachse et al. Comparison of various diagnostic methods for the detection of <i>Mycoplasma bovis</i> . <i>Rev Sci Tech</i> 12(2):576-577 (1993)	✓
	A49	Stott et al. Field trial of a quadrivalent vaccine against calf respiratory disease. <i>The Veterinary Record</i> 121:342-347 (1987)	✓
	A50	Subramaniam et al. Species identification of <i>Mycoplasma bovis</i> and <i>Mycoplasma agalactiae</i> based on the <i>uvrC</i> -genes by PCR. <i>Mol. Cell Probes</i> 12:161-169 (1998)	✓
	A51	Thomas et al. Development of a Multivalent Vaccine Against Calf Respiratory Disease. A.F.R.C. Institute for Research on Animal Diseases, Compton, Newbury, Berkshire, U.K. 691-695	✓

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<i>MS</i>	A52	Urbanek et al. Experiences with Herd-Specific Vaccines Against Respiratory Infections with <i>Mycoplasma bovis</i> in a Large Cattle Feedlot. <i>Veterinary Practitioner</i> 81(5):756-763, (2000)
EXAMINER: <i>General</i>	DATE CONSIDERED: <i>06/10/02</i>	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

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